

**DISTRIBUTION THEORY BASED ENRICHMENT OF SPARSE DATA**  
**FOR MACHINE LEARNING**

**Abstract of the Disclosure**

A technique for enriching sparse data for machine learning techniques such as supervised artificial neural network includes receiving the sparse data and enriching the received data around a deviation of the mean of the received data using a predetermined distribution. The technique further includes outputting the enriched data for unbiased and increased performance during the machine learning.

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